

**What is Claimed is**

1) Flame resistant, halogen-free polymer mixture, particularly for the sheath of cables and conductors, comprising polyurethane, fillers and additives, characterized in that 1 to 10 parts of polysiloxane, which contains functional methacrylate and/or epoxy groups, are added to 100 parts of the flame resistant, halogen-free polyurethane.

2. Flame resistant, halogen-free polymer mixture as claimed in claim 1, characterized in that 3 to 7 parts of polysiloxane, which contains functional methacrylate and/or epoxy groups, are added to 100 parts of the flame resistant halogen-free polyurethane.

3. Flame resistant, halogen-free polymer mixtures as claimed in claim 1, characterized in that the polyurethane is a polyether polyurethane.